In the Claims:

Please add the following claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents:

- -36. A non-naturally occurring transformed *Brassica* CC genome comprising an exogenous transparent seed coat gene obtained from a *Brassica* AA genome.
- 37. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein said *Brassica* CC genome is transformed by a method comprising the steps of chromosome doubling and embryo rescue.
- 38. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
- 39. A non-naturally occurring transformed *Brassica* CC genome according to Claim 37 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris, Brassica napus* and *Brassica juncea*.
- 40. The non-naturally occurring transformed *Brassica* CC genome according to Claim 38 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
- 41. The non-naturally occurring transformed *Brassica* CC genome according to Claim 39 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
- 42. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
- 43. A non-naturally occurring transformed *Brassica* CC genome according to Claim 37 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
- 44. A non-naturally occurring transformed *Brassica* CC genome according to Claim 38 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
- 45. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue comprising an exogenous transparent seed coat gene obtained from a *Brassica* AA genome.
- 46. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
- A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.



- A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 46 wherein the transformed *Brassica* plant, plant cell or plant tissue is a transformed *Brassica napus* plant, plant cell or plant tissue.
- 49. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.
- 50. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 46 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.
- A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 48 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.
- 52. A non-naturally occurring transformed *Brassica* plant according to Claim 45 wherein the transformed plant is non-sterile.
- 53. A non-naturally occurring transformed *Brassica* plant according to Claim 46 wherein the transformed plant is non-sterile.
- 54. A non-naturally occurring transformed *Brassica* plant according to Claim 48 wherein the transformed plant is non-sterile.
- 58. A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 36 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:
 - (i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high level of erucic acid; and
 - (ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).
- 56. A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 37 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:
 - (i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high level of erucic acid, and

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(ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).

A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 38 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:

- (i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high /level of erucic acid; and
- (ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).
- A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed is a transformed *Brassica napus* yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).
- A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed is a transformed *Brassica* napus yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).
- 60. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed is a transformed *Brassica napus* yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).
- 61. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed is a transformed *Brassica napus* yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).
- 62. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed is a transformed *Brassica* rapus yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).
- 63. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed is a transformed *Brassica* napus yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).
- 64. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.

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- A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.
- A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.
- A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
- 68. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
- 69. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
- A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
- A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
- A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
- 73. A non-naturally occurring *Brassica* yellow seed according to Claim 67 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
- 74. A non-naturally occurring *Brassica* yellow seed according to Claim 70 wherein the seed has a fiber content of not more than about 8% oil free meal.
- A non-naturally occurring *Brassica* yellow seed according to Claim 71 wherein the seed has a fiber content of not more than about 8% oil free meal.
- A non-naturally occurring *Brassica* yellow seed according to Claim 72 wherein the seed has a fiber content of not more than about 8% oil free meal.

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- A non-naturally occurring *Brassica* yellow seed according to Claim 73 wherein the seed has a fiber content of not more than about 8% oil free meal.
- 78. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 55.
- 79. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 56.
- A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 57.
- A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 67.
- A method for increasing the levels of seed oil and protein and reducing the levels of fiber in a seed wherein the method comprises: transferring the transparent seed coat gene of an AA genome of a first *Brassica* plant, plant tissue or plant cell into a CC genome of a second *Brassica* plant, plant tissue or plant cell.
- 83. A method according to Claim 82 wherein said method comprises the steps of chromosome doubling and embryo rescue.
- 84. A method according to Claim 82 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
- 85. A method according to Claim 84 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
- 86. A method according to Claim 82 wherein the CC genome is a *Brassica napus* CC genome.
- 87. A method according to Claim 83 wherein the CC genome is a *Brassica napus* CC genome.
- 88. A method according to Claim 84 wherein the CC genome is a *Brassica napus* CC genome.
- A method according to Claim 82 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.
- 90. A method according to Claim 83 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.

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- 91. A method according to Claim 84 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.
- 92. A method according to of Claim 82 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
- 93. A method according to of Claim 83 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
- 94. A method according to of Claim \$4 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
- A method according to Claim 82 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
- 96. A method according to Claim 83 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
- A method according to Claim 84 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
- 88. A method according to Claim 82 wherein the seed has a fiber content of not more than about 8 % oil free meal.
- 99. A method according to Claim 83 wherein the seed has a fiber content of not more than about 8 % oil free meal.
- 100. A method according to Claim 84 wherein the seed has a fiber content of not more than about 8 % oil free meal.
- 101. A non-naturally occurring transformed *Brassica napus* plant yielding seeds with a transparent seed coat.
- 102. A method for delivery of one or more genes of interest to a heterologous genome wherein the method comprises the use of a *Brassica* AA genome as a vector.
- 103. A method according to Claim 102 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
- 104. A method according to Claim 103 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
- 10%. A method according to Claim 103 wherein the heterologous genome is a *Brassica napus* CC genome.

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106. A method according to Claim 104 wherein the heterologous genome is a *Brassica napus* CC genome.

107. A transparent seed coat encoded by a transparent seed coat gene obtainable from NCIMB 40991 and/or NCIMB 40992.

A non-naturally occurring *Brassica* plant, plant cell or plant tissue comprising the non-naturally occurring *Brassica* genome of Claim 36.

109. A method for preparing the non-naturally occurring *Brassica* plant, plant cell or plant tissue of Claim 108 wherein the method comprises: transferring the transparent seed coat gene of an AA genome of a first *Brassica* plant, plant tissue or plant cell into a CC genome of a second *Brassica* plant, plant tissue or plant cell.--

Please cancel Claims 1-35 without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents.

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